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PURPOSE

The purpose of this document is to specify the individual steps for installing the K 100 in connection with K 154 or K 180 or K 181 or K 183.

The KIT 3274 - K 100 - V 002 contains all specify part's for install the four Kits

3250-K 154 (M 250-07-STD) *
3250-K 180 (M 250-45-STD)
3250-K 181 (M 250-05-STD)
3250-K 183 (M 250-06-STD)

in the C-3274.

This Kit comprises of on Cable for connecting the Adapter M 250-05-STD with an LED in the Front Panel.

The "DATA SET READY" (LED) status is demanded by the German Federal Post.

Additional Parts

The following parts must be ordered seperately:

- Communication Cable
- Modem
- K 154 or K 180 or K 181 or K 183
- Insulating Tape

The following Modems are not tested with **9010**. Augsburg QA must be notified before Installation.

- Modem BELL 201C
- Modem BELL 208C
- Pin for Pin compatible Modem or a V Modem
- * Please note that for installing this DLC Inhouse Communication Kit besides the present Installation Instruction the NCR/DLC Installation Guidelines have to be considered.



PARTS LIST

The parts included in the Kit C-3274 - K 100 - V 002 are specified in the Parts List 603 - 6091195

PROCEDURE

- 1. Disassembling
- 1.1 Switch the power switch located at the control panel of the C-3274 unit to its OFF position.
- 1.2 If the Memory Support Subsystem is installed, switch the respective switch located at the rear side of the unit to its OFF position.
- 1.3 Remove the power plug from the wall socket.
- 1.4 Loosen the screws at the back wall of the C-3274 cabinet.
- 1.5 Remove the C-3274 cabinet top.
- 2. Assembling-LED wiring for M 250-05-STD only
- 2.1 Take the Communication Indication Cable 017-0025135 (Item 1) and connect its one end with the Pin Socket I 1 of the PC-Board M 250-05-STD.
- 2.2 Lay the Cable to the front panel as shown in Figure 1-A.
- 2.3 Connect the free end of the Cable with the pin socket
 P-3 of the front panel PC board see Fig. 1
- 2.4 Fasten the Cable 017-0025135 at the existing cables and at the three holes in the vertical frame plate by means
- 3. Assembling for all Boards M 250-45/05/06/07-STD
- 3.1 The Communication Adapter must be strapped per strapping list for

M	250-45-STD-001	Section	6,1
M	250-05-STD-		6.2
M	250-06-STD-		6.3
M	250-07-STD-		6.4

3.2 The adapter can be installed in slot 8 or 9.

3.3 For Cable mounting 1120-C001 1313-C001 1401-C081 1308-C004

and 1308-C005 continue with paragraph 3.4.

For Cable mounting 1401-C093 1401-C094

see item D in Fig. 1 and continue with paragraph 3.6

- 3.4 Remove the Cable-Sheathing from the cable for Details see Fig. 1.
- 3.5 Bend the Shield-Lug (item B in Fig. 1) close to the Cable Sheathing and wrap Insulating Tape around.
- 3.6 If you see that there is no spare position for mounting an additional single cable clamp, loosen a cable with similar diameter and mount the two cables with a double clamp. Continue with paragraph 3.10.
- 3.7 Put the cable through the bottom of the cabinet from below.

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3.8 Using the Cable Clamp, the Cable Clamp Bracket and two screws of following table.

Cable	Part I	List Item	
Number	Clamp	Clamp Bracket	screws
1120 - C001-xxxx	11	2	4
1313 - C001-xxxx	8	2	4
1308 - C004-xxx	12.	2	4
1308 - C005-xxxx	12	2	4
1401 - C094-xxxx	8	2	4
1401 - C093-xxxx	3	2	4
1401 - C081-xxxx	3	2	4

3.9 Fix the Clamp Bracket on to the Cabinet by means of the screws (items).

Continue with paragraph 3.12.



- For Double Clamp put the cable through the bottom of the 3.10 cabinet from below. Fix the Clamp Bracket (item 2) on to the two cables by means of the screw (item 10).
- Fix the Clamp Bracket on to the Cabinet by means of the 3.11 two screws (item 5).
- Attached the M250-XX connector of the Cable to the Pin 3.12 Socket of the M250-XX Adapter Board.

M250-45-STD-000 Pin Socket J2 M250-45-STD-001 Pin Socket J1 M250-05-STD Pin Socket J2 M250-06-STD Pin Socket J2 M250-07-STD Pin Socket J1

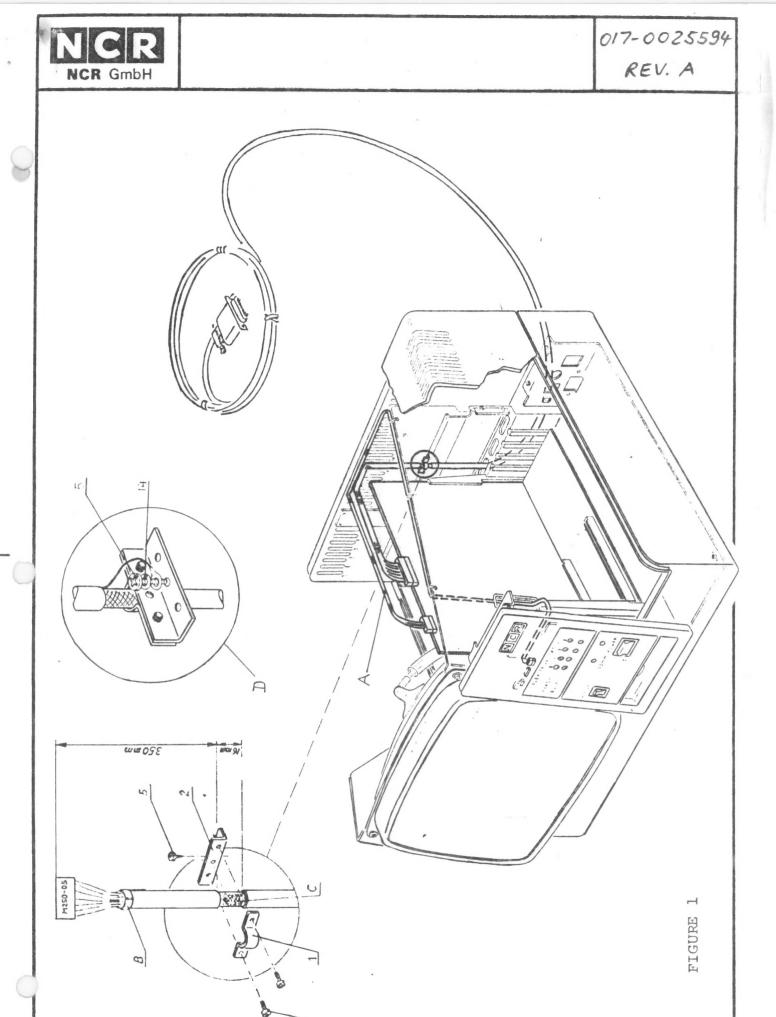
- 3.13 Replace and fasten top cabinet.
- 4.0 Power-up and Check-out
- Put the power plug into the wall socket. 4.1
- Switch the Non-Volatile Memory Switch (see disassembling 4.2 step 1,2) to its on position.
- Run Communication Diagnostic to check the proper operation 4.3 of the system.

Level 1 Diagnostic

M250 - 45Diagnostic M25045 DP M250 - 05M25005 DP M250-06 MCSDLC M250 - 07MCSDLC

- 4.4 Update the Field Print Package.
- Attach the change level label to the change level record 4.5 card.
- 5.0 Packing Instructions
- 5.1 Attach 1 label 017-0025611 to the packing container.
- 5.2 Put installation instructions 017-0025494 and parts list 603-6091195 and 1 label 017-0025611 into bag V00-0010598.
- Put screws, clamps and brackets into bag H00-0001347. 5.3
- 5.4 Put the Attention Sheet 017-0025676 above the front sheet of the Installation Instruction.

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6.1 Header Strapping M250-45-STD-001

Bus Master Selection

Master Select 5 J4-203 to J4-205 J4-203 to J4-205 is a strap in artwork.

Poll Request Selection PREQ5 J5-104 to J5-203

Service Request Priority Assignment for first board (D2) J5-115 to J5-103 for second board(D0) J5-117 to J5-103

Board Selection J4

for first board (FF00) J4-109 to J4-107 to J4-210 J4-106 to J4-108 to J4-110 to J4-209

for second board (FF20) J4-106 to J4-108 to J4-209 J4-107 to J4-109 to J4-110 to J4-210

Clock Selection

Internal Clock J2-110 to J2-108 to J2-109

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Header Strapping M 250-45-STD-001 Status 3 reside on socket J3

A through-connection between the following pins will turn on or turn off the particular bit.

BIT	ON	OFF	D0, D6 and D7 have to be strapped
	205 TO	105 TO	according to the requirements of the external unit.
D0	201	201	1
D1	101	101	1 R 1 3
D2	202	202	0
D3	102	102	1 0
D4	203	203	7
D5	103	103	1 4 . 0
D6	204	204	1 4
D7	104	104	0

The required strapping for Status 3 is defined below:

DO must be ON if Asynchronous Operation is at a Bitrate of 1800 bps or less.

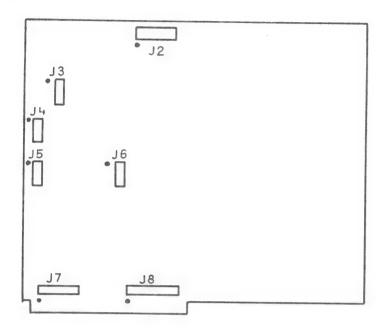
- D1 must be ON in all cases
- D2 must be OFF in all cases D3 must be OFF in all cases
- D4 must be OFF in all cases
- D5 must be OFF in all cases
- D6 must be ON if a stop element with 1 unit or 2 unit length is
- D7 must be ON if a stop element with 1,5 unit or 2 unit length is required.



0						STR	STRAPPI	FIELD	32						
OPERATION				ASY	ASYNCHRONOUS		(WITH OR	R WITHOUT	UT MODEM)	Œ			SYNCH	(MODEMLESS	(LESS)
BIT RATE	75	110	134.5	150	200	300	009	1290	1800	2400	4800	0096	2400	4800	0096
NOTE 2	64	64	779	64	64	64	64	64	64	16	16	16	г	-	
	102	102	102	105	103	104	103	102	102	103	102	102	102	102	105
		104	103	205	105	105	104	103	103	104	103	103	agamaga kainna. As		205
106		204	104		203	204	105	104	104	105	104	104	-		
		205	203		204		203	105	105	203	105	105			
			205	m 4-standardardardardardardardardardardardardard				201	203		201	205			
								×	204		×		Sir var varidaggjan		
	103	103	105	102	102	102	102	203	201	102	203	203	103	103	102
	104	105	201	103	104	103	201	204	205	201	204	204	104	104	103
	105	201	204	10.4	201	201	204	205		204	205		105	105	104
206	201	203		201	205	203	205			205			201	201	201
	203		una atro-differente	203		205							203	203	203
	204			204									204	204	204
	205												205	205	
101												201			
107	207	207	207	207	207	207	207	207	207	207	207	207		207	207
NOTES : 1	. Sel	ection	Selection of -64-	or -16	10		as Baud Rate Factor	tor is		controlled by bits	bits	Do and	DI in F	Function	n 1.
0		Baud	The Band Kate Factor Connect pins 100, 206	206.	always 101 and		auring	107 with the pins	mentioned in	red in (the column	um for	the	desired	Bait
d	•	e and	Rate and type of Operati	Operat	ion.										
3	3. By	strapping	207	to 107,	, this	allows	s software	ware to	select	Bir Rate	OI	Bit Rat	Rate, 2.		
•															

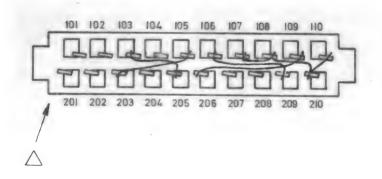


6.2 Header Strapping M250-05-STD Figure 1: Header Location



Indicates Pin 201

Figure 2: Header Strappings J7



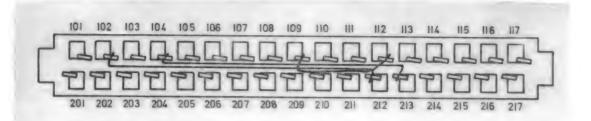
HEADER	LOCATION	STRAPPING	SIGNAL
MASTER SELECT & BOARD SELECT (Wire Wrap)	J7	203 to 105 103 to 205 110 to 210 209 to 106 108 to 210 107 to 108 109 to 206	MIDD5/ to CMID/ MIDD6/ to DMID/ AS5 to Pull up AS6 to GND AS7 to Pull up AS8 to Pull up AS9 to GND

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Header Strapping M250-05-STD

J8



POLL REQ	UEST	J8	213	to	104	PI	REQC.	FA/	to	PREQ5/
(Wire Wr	ap)		212	to	102	Pl	REQO	FA/	to	PREQ6/
			113	to	114	C	ISR/	to I	03/	
			112	to	109	D:	ISR/	to I	06/	
201	0 0	101				201			-0	101
202	00	102				202	0			102
203	0 0	103				203	0-		-0	103
204	00	104				204				104
205	0 0	105				205	0-		-[]	105
206	0	106				206				106
207	0 0	107				207	0-		-0	107
208		108				208				108

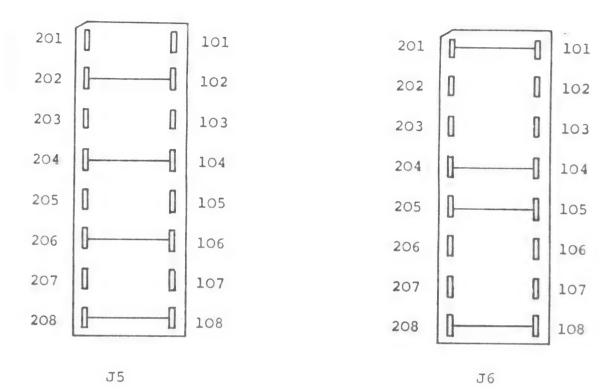
J3

OPERATOR INTERFACE	J3	102 to 202 104 to 204 106 to 206 108 to 208	WIN/ to WINST/ SPARED/ DSRS to DSRST DTRST/ to DTR. LAA/
RAPPING BYTE 1	J4	101 to 201 103 to 203 105 to 205 107 to 207	DO D2 D4 D6

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Header Strapping M250-05-STD



STRAPPING BYTE 2	J5	102 to 202 104 to 204 106 to 206 108 to 208	D1 D3 D5 D7
CLOCK SELECTION & DMA I.D.	J6	101 to 201 104 to 204 105 to 205 108 to 208	RSET/ to RXC/ TSET/ to TXC/ DID6 to GND DIDOS to GND



6.3.0 Header Strapping M 250-06-STD

6.3.1 TABLE 1.

MODEM INTEGRATED MODEM EXTERNAL	J1 J1	NO CONNECTION	
MODEM FYTERNAL	J1		
HODEN DATHWAL		101 to 201 102 to 202 103 to 203	RECNRZI to GND TXNRZI to GND GND to MODEM
2400 BPS CLOCK GENERATION	J4	206 to 105 205 to 106 202 to 109 109 to 208	LOW FREQUENCIES C1K2 to F6 F6 to CLK1
DTR/RTS	J5	101 to 201 104 to 204	DTR to DTR.L/ RTS to RTS.L/
DSR/CO/DRS	J6	201 to 202 203 to 102 205 to 104	DRS to DRS.L/ CO.V/ to CO/ DSR.V/ to DSR/
Comm. Address	J7	See Table 2	
DMA COMM #1 0&1	Ј8	103 to 104 104 to 105 105 to 205	ADID 2 to ADID 1 ADID 1 to ADID 3 ADID 3 to GND

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HEADER	LOCATION	STRAPPING	SIGNALS
MASTER SELECT	J9	203 to 205	MASTER 5 to MSEI CCM
		103 to 105	MASTER 6 to MSEL DMA
BOARD SELECT	J9		
COMM #1 FD20		107 to 210 110 to 210 206 to 108 108 to 209 109 to 209	BAD8 to BAD5 BAD5 to PULLUP GND to BAD7 BAD7 to BAD6 BAD9 to BAD6
POLL REQUEST	J10	102 to 203 103 to 104	PREQ6/ to DPREQ CPREQ to PREQ5/
SERVICE REQUEST CCDLC #1 0&1 DSR 1 DSR		112 to 213 213 to 116 212 to 117	DSRT to ISR/ ISR/ to DI/ DSRR/ to DO/



Header Strapping M 250-06-STD

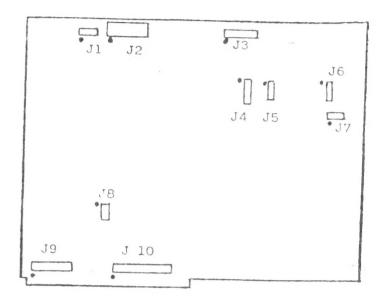
Table 2 COMMUNICATIONS ADDRESS HEADER J7

J7-101		-	J7-105	Ground
J7-102			J7-205	Pulup
J7-103			J7-205	
J7-104			J7-205	
J7-204			J7-205	
J7-203			J7-205	
J7-202		-	J7-205	
J7-201			J7-205	
	J7-102 J7-103 J7-104 J7-204 J7-203	J7-103 J7-104 J7-204 J7-203 J7-202	J7-102 J7-103 J7-104 J7-204 J7-203 J7-202	J7-102 J7-205 J7-103 J7-205 J7-104 J7-205 J7-204 J7-205 J7-203 J7-205 J7-202 J7-205

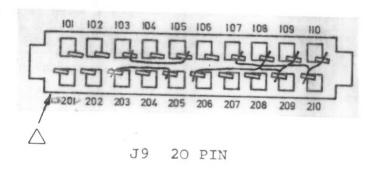
Each Secondary Station in a DLC System is assigned a Communication ADDRESS. Strap this ADDRESS by correcting the ADDRESS bits ADX/ to Ground for a ONE and to pull-up for a ZERO. The example in Table 1 shows strapping for secondary ADDRESS 01.

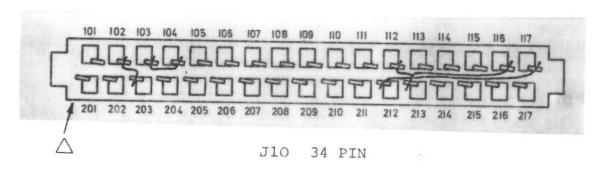
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6.3.2 Header Positions M 250-06-STD



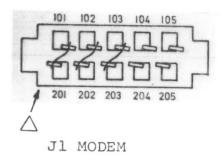
• Indicates Pin 201

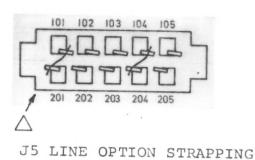


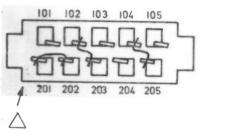


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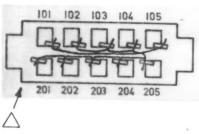
Header Strapping M 250-06-STD



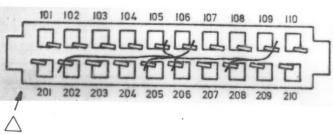




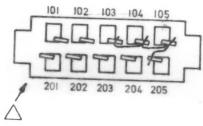
J6 LINE OPTION STRAPPING



J7 COMMUNICATION ADDRESS (see table 2)



J4 2400 BPS CLOCK GENERATION



COMM # 1 O&1 J8 DMA CHANNEL



6.4 Header Strapping M250-07-STD

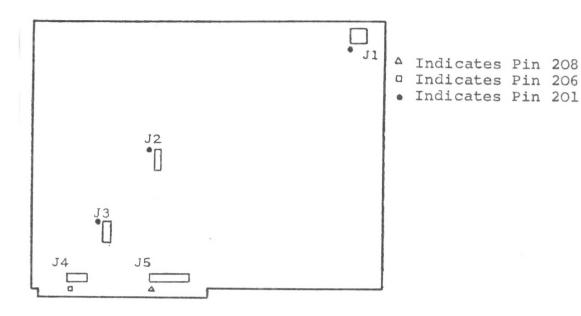
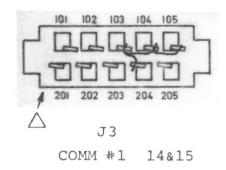
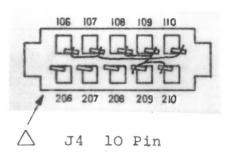
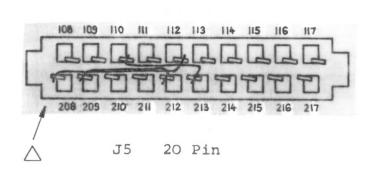


FIGURE 1: M250-07-STD HEADER POSITIONS







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M 250-07

Table 1. Header Strapping						
HEADER	LOCATION	STRAPPING	SIGNALS			
COMMUNICATION ADDRESS	Ј2	NOT REQUIRED				
DMA CHANNEL COMM #1	Ј3	204 to 103 103 to 104 104 to 105	PULLUP to ADID2 ADID2 to ADID1 ADID1 to ADID3			
BOARD SELECT COMM #1 FECO	Ј4	209 to 210 106 to 107 107 to 110 108 to 109 109 to 209	BAD6 to +5V GND to BAD8 BAD8 to BAD5 BAD7 to BAD9 BAD9 to BAD6			
SERVICE REQUEST CCDIC #1 14&15 DSR 5 ISR	J5	110 to 213 112 to 208 212 to 209	D5/ to ISR/ DSRT/ to D15/ DSSR/ to D14/			